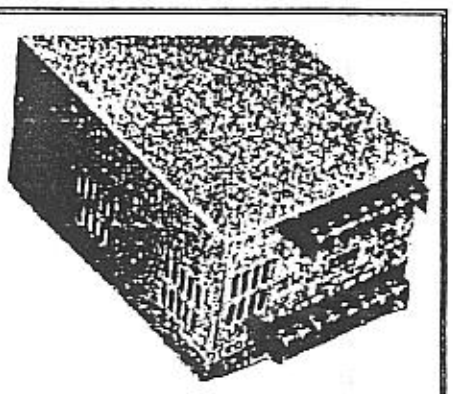
MEAN WELL SWITCHING POWER SUPPLY

PSP-300 SERIES

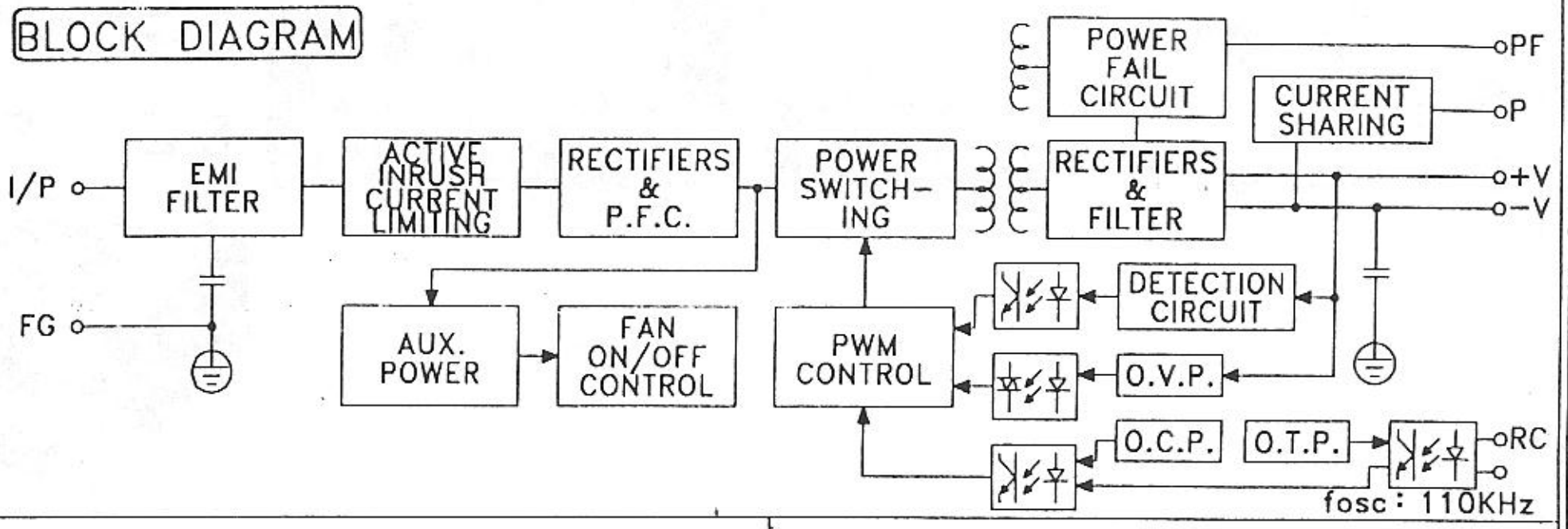
- LOW COST, HIGH RELIABILITY
- 105℃ OUTPUT CAPACITOR
- INTERNATIONAL AC INPUT RANGE
- BUILT IN EMI FILTER, LOW RIPPLE NOISE
- HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE, OVER TEMP. PROTECTED
- COMPACT SIZE, LIGHT WEIGHT
- 100% FULL LOAD BURN-IN TEST
- COOLING FAN ON/OFF AUTOMATICALLY
- PARALLEL / SERIES OPERATION IS POSSIBLE
- BUILT IN PFC CIRCUIT



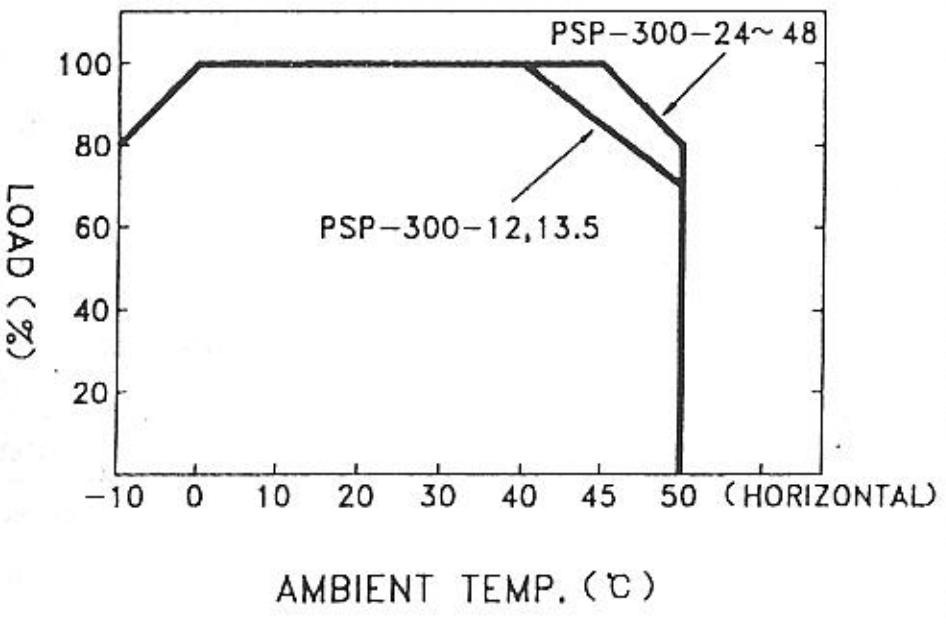
MODEL / SPECIFICATION	PSP-300-12	PSP-300-13.5	PSP-300-24	PSP-300-27	PSP-300-48
DC OUTPUT VOLTAGE	12V	13.5V	24V	27V	48V
OUTPUT V. TOLERANCE [2]	±1%	±1%	±1%	±1%	±1%
OUTPUT RATED CURRENT	25A	22A	12.5A	11A	6.5A
OUTPUT CURRENT RANGE	0-25A	0-22A	0-12.5A	0-11A	0-6.5A
RIPPLE & NOISE [3]	200mVp-p	200mVp-p	200mVp-p	200mVp-p	240mVp-p
LINE REGULATION [4]	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
LOAD REGULATION [5]	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
DC OUTPUT POWER [7]	300W	297W	300W	297W	312W
EFFICIENCY	82%	82%	84%	84%	86%
DC VOLTAGE ADJ.	10-13.2V	12-15V	20-26.4V	24-30V	41-56V
INPUT VOLTAGE RANGE	88～264VAC				
INPUT/CURRENT FREQUENCY	4.5A/115V 2.3A/230V 47～63Hz				
POWER FACTOR	0.95/100～240VAC				
INRUSH CURRENT	15A/115V 30A/230V				
OVERLOAD PROTECTION	105%～135% TYPE:CONSTANT CURRENT LIMITING RECOVERY:AUTO				
OVER V. PROTECTION	13.8V～16.2V	15.5V～18.2V	27.6V～32.4V	31V～36.5V	57.6V～67.2V
FAN CONTROL, O.T.P	RTH1 or RTH2≧55℃ FAN ON, ≦50℃ FAN OFF, ≧70℃ OUTPUT SHUTDOWN				
TEMP. COEFFICIENT	±0.03% / ℃ (0～50℃)				
SETUP, RISE, HOLD UP TIME	1.5s, 50ms, 20ms				
VIBRATION	10～500Hz:2G 10min./1cycle 3AXES (NON OPERATION 1 HOUR EACH AXES)				
WITHSTAND VOLTAGE [6]	I/P-O/P:3KV I/P-FG:1.5KV O/P-FG:0.5KV 1min.				
WORKING TEMP., HUMIDITY	-10℃～+50℃, 20%～90% RH (REFER TO OUTPUT DERATING CURVE)				
STORAGE TEMP., HUMIDITY	-20℃～+85℃, 10%～95% RH				
DIMENSION	185＊120＊93mm CASE:910				
WEIGHT	1.6Kgs				
SAFETY STANDARDS	UL1950, TUV EN60950 APPROVED				
EMC STANDARDS	CISPR22 (EN55022), IEC1000-4-2,3,4,5,6,8,11 IEC1000-3-2 VERIFICATION				

NOTE：
1. ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25℃ AMBIENT.
2. TOLERANCE：INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3. RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5. LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.
6. C3,4,22,41,63,140,141 MUST BE REMOVED.
7. REFER TO OUTPUT DERATING CURVE VS INPUT VOLTAGE.

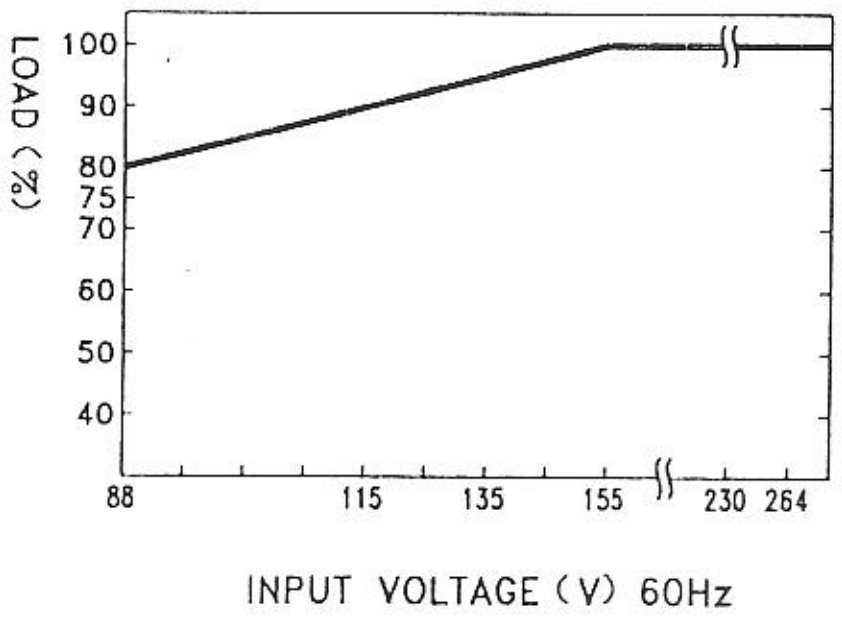
BLOCK DIAGRAM



OUTPUT DERATING VS Ta



OUTPUT DERATING VS INPUT VOLTAGE



DIMENSION (mm)

- CASE : 910
- TERMINAL PIN NO. ASSIGNMENT
  - PIN 1,2 : AC INPUT
  - PIN 3 : FG ⏚
  - PIN 4 : P.F.
  - PIN 5 : P
  - PIN 6 : R.C G
  - PIN 7 : R.C.
  - PIN 8 : +S
  - PIN 9,10,11: DC OUTPUT +V
  - PIN 12,13,14: DC OUTPUT -V
  - PIN 15 : -S